Missouri Botanical Garden
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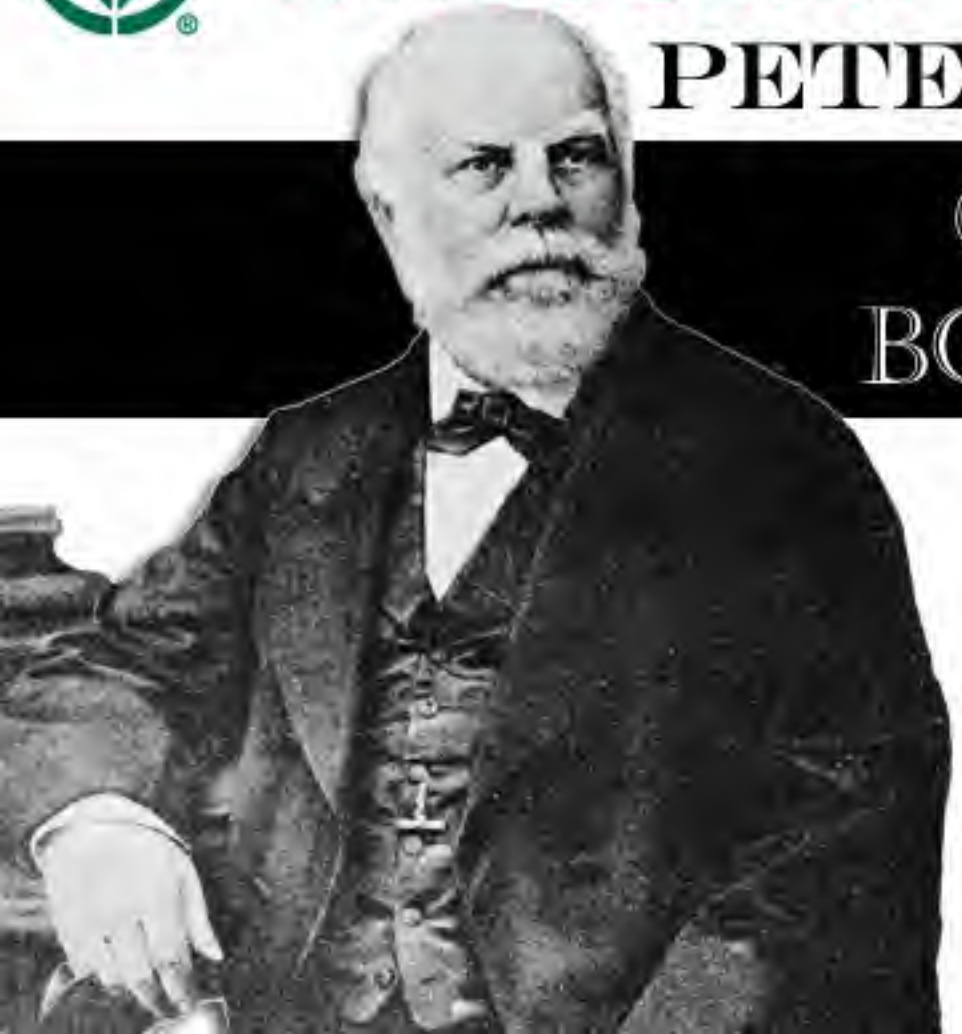
George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Hb Kew Sept 8 1869

Hesperopeuce

Abies Pattoniana with the printed labels of the Oreg Committee
430. but without name — "If this tree proves undescribed, I hope
it will be known under the name of A. Pattonii" This
is evidently extr. of Jeffrey's letter — (Mss pencil notes: Cascade
Range 49° Washington Territory — This would be the 2nd, new species 1880)
Printed label says: from 5000 feet to margin of perpet. snow.
150' high till at last shrubs 4 feet high only. On Mount Baker
range of Mountains [49°]

12 California, Lobb. 1857. is said to be the same: globose
Tannts on extremely delicate slips 5–8 mm exsert

A Hookeriana
Pinus = Pattoniana

Beardsley 1856 from California, rem Thicken

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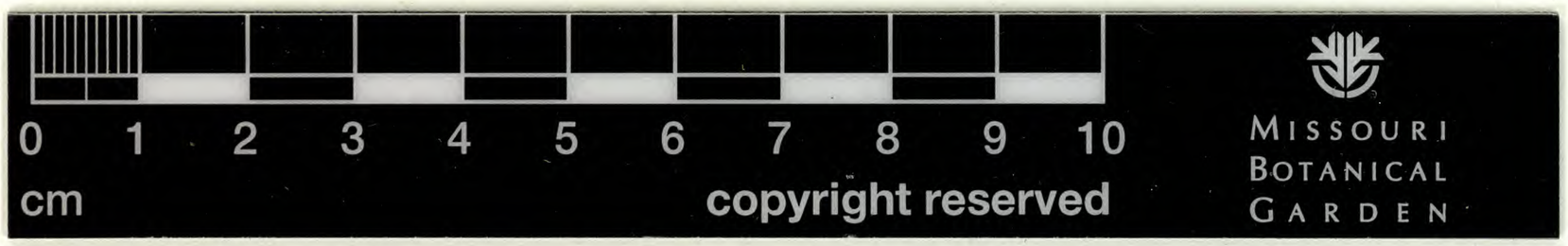

Acer Canadense
Chandsford
2 — 1863

×415

0.032"

0.036"

Pollen, fertile grains
for effete anthers

edge of Pollen ×785

×415

found mixed on the same specimen

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ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST.

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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Kew Sept 1869

Abies Pattoniana "Balfour ÷ Circulars by Edinb. Bot. Soc. Bot. Assoc.
1853 - p. 1 t. 4. fig 2 — Pinet. Brit. part IV
introduced by Jeffrey

Abies Hookeriana Murray ÷ Edinb. New Phil Journ. p. 289 (April 1855)
= A. Williamsonii Newberry 1857 Pinet Britt part IV.
Wm Murray found it on Scots Mountain - abundant (fide Lobb) on
the headwaters of Feather River

Pinus Pattoniana

(N.B. is the Umatoma Picea (Mayr Siberian) not this plant ?)

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Abies Pattoniana, "Balfour" ? Fl. Brit. p. IV
— Hookeriana, Murray; = Edib. New Phil
Journal p. 289 April 1858
& Fl. Brit. p. IV.
Abies Albertiana Hook. (1857)
quoted as synonymous.

Rev Syst 1866

Gymnospermeae

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Herb Hd Corvallis 1869

Abies Nr 430

Mount Baker Range 5000' to the passes
Snow 150' high, 13/p diam — at Coast only
a shrub 4 feet high. — " if undescribed
I hope it will be known under the name
of Abies Pattoni " Jeffrey's specimens printed by Oregon Committee

[Extract of a private letter — no name to it.
Then must be either the original of A. Pattoniana — yes!

Subs a one

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Abies Williamsonii seen only at great altitudes, above 7000 feet — rarely below 8000 ; next to *Pinus flexilis* the highest of any California Coniferæ. In latitude 38 or high up as 10,000. " There are two forms of cones, at least when dry — one truncated, as figured by Newberry ; — Mr Bridges (an experienced seed and plant collector) says that *A. Williamsonii* in the Sierra Nevada is *A. Pattonii* of Jeff and the English nurseries. W H Brewer 1864

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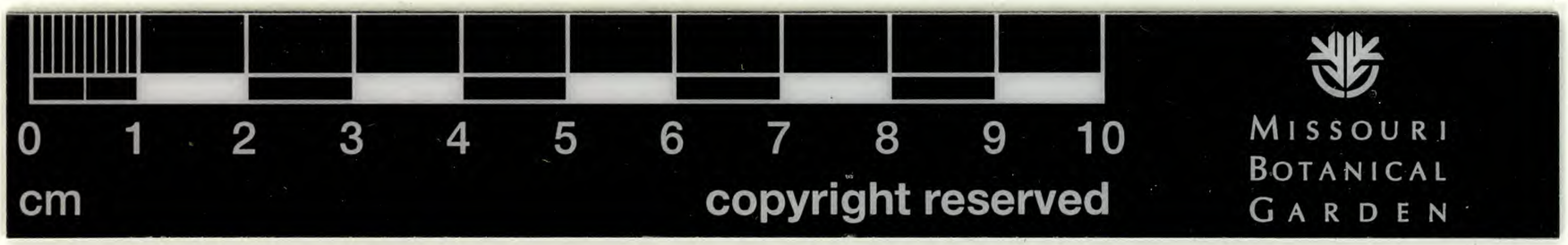

Large groups at alt. 7500'

Tsuga Pattoniana on Shasta

Aug 23° 1880. 195 inches circumf.

16' 3" at 7500 feet alt.; another

has 162" = 13½ feet

Abies magnifica almost stops

at that elevation

10
12
32
16
195

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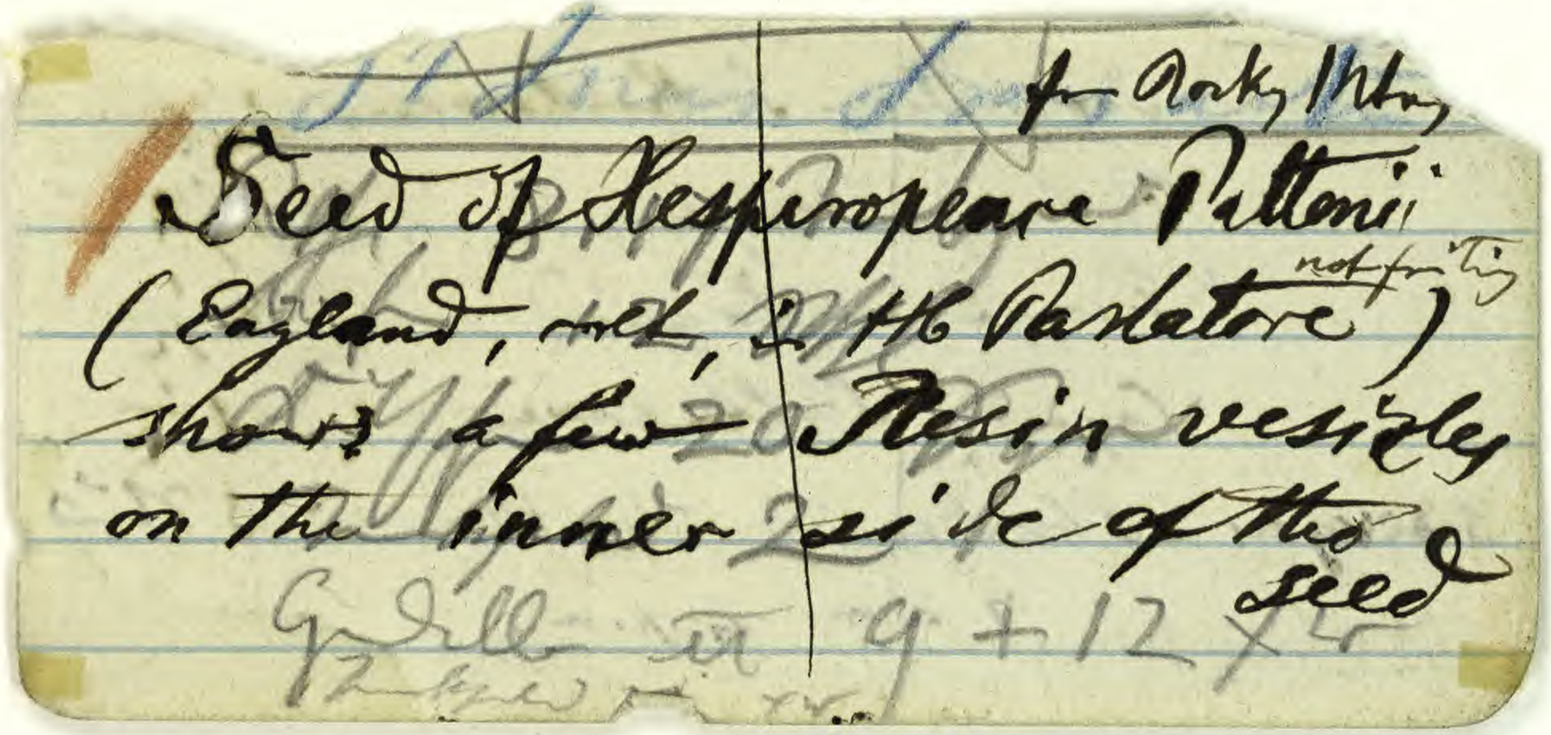
Seed of Hesperopeare Pattonii
(England, not, & the Parkatore not for Ty)
shows a few Resin vesicles
on the inner side of the
seed

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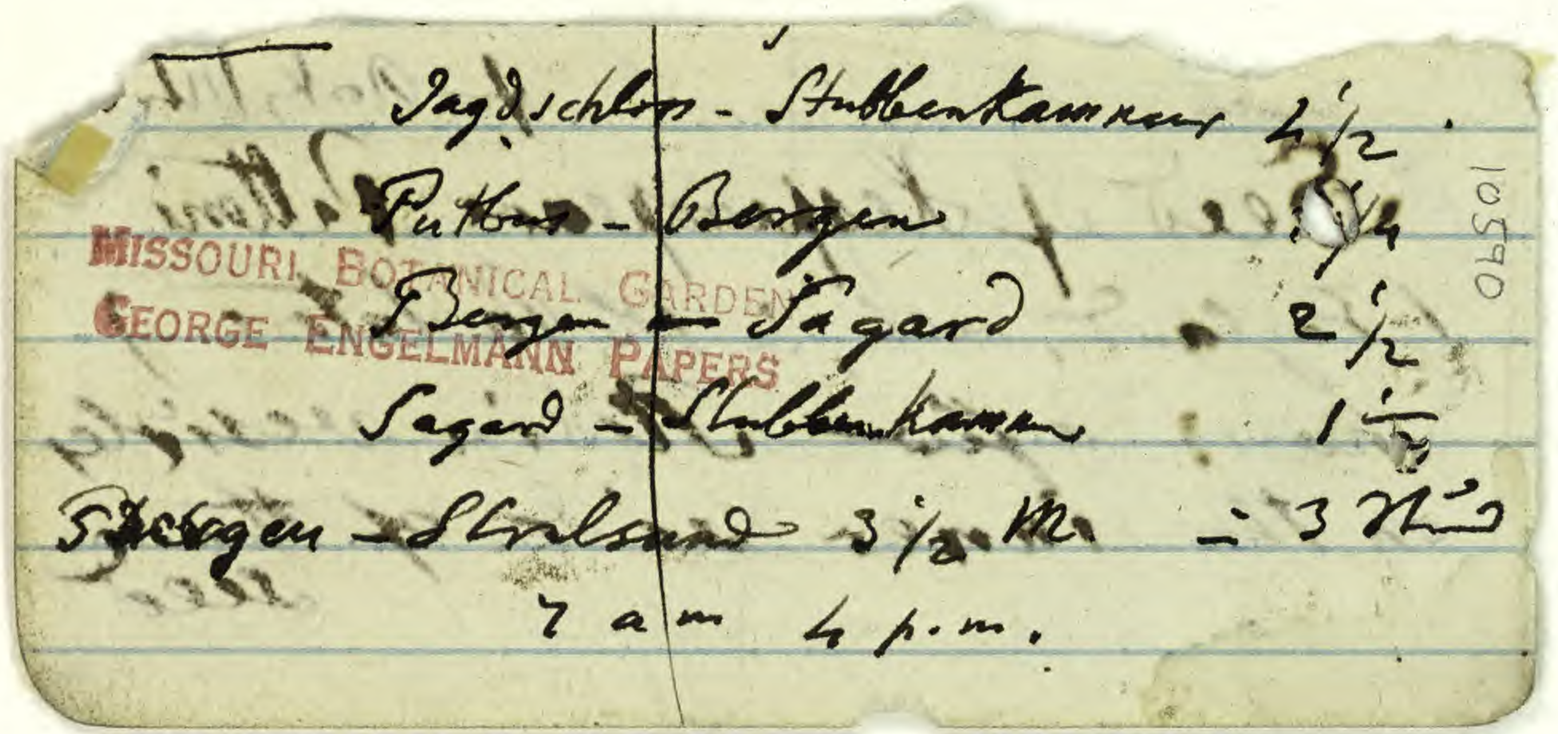
Jagdschloss - Stubbenkammer 4½.
Putbus - Bergen 3¼
Bergen - Sagard 2½
Sagard - Stubbenkammer 1½
Bergen - Stralsund 3½ M. = 3 M.
7 a.m. 4 p.m.
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Abies Hookeriana Murray in Proceedings
of the Royal Horticult. Society vol III
N° 5. May 1, 1863. p. 202-207
(not Abies)

Abies Hookeriana A. Murr. Encycl. Phytol. Journ. Apr. 1853

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WHEELER & WILSON

SEWING MACHINES.

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Permit us to c

SEWI

mentioned in our e

COTTON *and* **SILK M**

ing Machine, and

10,000 of

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cm 0 1 2 3 4 5 6 7 8 9 10

= Inga Pittonii Engl

11th Mch 1875

P. v. H. Hookeriana 1855 – leaves margin entire, both sides dark green – 4-6 rows of stomata on each side of middle line. Resin duct separated from the sheath of the fibro vascular bundles by one or two layers of large chlorophyll bearing cells

P. H. Pattoniana n. sp. leaves margin denticulate towards apex upper side yellowish green, 2-4 rows of stom. on each side of a slight central furrow; beneath with 6-7 rows on each side of middle line. Resin duct in contact with sheath of fibro vascular bundle x Gridn

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Remember when you are in want of any PERFUMERY, FINE BAY RUM, ENGLISH AND FRENCH BRUSHES, CUT GLASS BOTTLES, WRITING PAPER, VISITING CARDS, SOAPS. COLOGNES, EXTRACTS in bulk for the Handkerchief, SPONGES, ODOR CASES, or any Toilet Article, you can find a Complete Stock at C. K. JONES & Co., 2800 Washington Avenue. Also remember when compelled to buy any MEDICINES, that they keep a full and fresh stock, which are dispensed by experienced Pharmacists.

Abies Nuttonii Mountain.

Bark of young leaves — epidermis (Larger pieces the upper
also of top of a leaf smaller — . Lower surface

Dust below close to hypoderm, distinct for new
Largest age leaves
smaller upp

ridge usually on upper side

stomata all over upper side

none in middle below (Best)

Three long epidermis cells
groove below! near base
especially

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GEO. ENGELMAN, M. D.

Office & Residence; 3003 Locust St.

Abies Williamsonii

Hall: a common but not large forest tree of the higher Cascades at base of Mt. Hood

Cupressus a most graceful tree at Crescent City it comes near the coast just as contorta!

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Gordonia Pinetum - p. 10

" Sect. 7. Abies Pattonii, Jeffrey. ——
syn. Abies gracilis, Hort.
" " Engelm. Pat., Hook.
" " Hookeriana, Murray "
" Picea Californica, Carrière

— Nothing said of "distinction between Pattoniana and Hookeriana", leaves described as "bright green above and glaucescent beneath."

In Supplement — p. 6. is given "Syn. Abies Williamsonii, Newberry, Pac. R.R. Rep." — Bridges' Williamsonii being A. Menziesiana — A. Pattoniana in both cases.

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Rec'd - 23 April 1872
Ans 8 May.

Dear Dr. Engelmann, Above [illegible]'s notes from Gordon as requested. I cannot give exact date of publication of Hartweg's journals — but the collection was made in '46 or '47

As to my description of my A. amabilis I must say that I think you are rather hard to satisfy. All that I borrowed from any one in that description is put in quotation marks. Having foliage, [illegible]

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fertile ovules & perfect corolla I had occasion to do no more than to put a (?) after the name. I can refer here only to the specimen in Dr. Gray's set, and on examining it, it seems to differ little from the general description, though the leaves are more glaucous above than I expected to find them. They are certainly often channelled, especially toward the base. The "prominences" of course fades out in dried specimens and both sides become alike and free from the glaucousness. The specimens were tolerably fresh when my description was written & I endeavored to make it conform to them without troubling myself whether or not it omitted any thing else.

I did not say that they were not your <u>convolvulus</u> but that they did not accord with the description given. Fresh leaves have been a very different look — but I should not wonder if it was all one with <u>grandiflora</u>.

Dr. Gray says that the "Ateles balsamea" from Camb. Garden, referred thereto, was certainly that species & nothing else.

In haste — Yours Very Truly

B. Bates

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